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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/624,051	07/24/2000	R. Bruce Wallace	12680R0US02U	6228
34845	7590	07/13/2005	EXAMINER	
STEUBING AND MCGUINNESS & MANARAS LLP 125 NAGOG PARK ACTON, MA 01720			DONAGHUE, LARRY D	
			ART UNIT	PAPER NUMBER
			2154	

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/624,051

Applicant(s)

WALLACE ET AL.

Examiner

Larry D. Donaghue

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

RD

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1. Claims 1-20 are presented for examination.
2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-7, 10-16, and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagle, D., Active Storage Networks, www.ece.cmu.edu/~asn/old/pubs/Active%20Storage%20Nets%20Intro-odf, Carnegie Mellon Univ., pp. 1-14, July 16, 1998, in view of Wan et al. (6,470,382).

Apparatus claims 10-16 and 19-20 will be discussed before method claims 1-7.

Regarding claim 10, Nagle teaches the invention substantially as claimed by disclosing an apparatus (p. 4 slide 7 active router) that facilitates operations related to data storage between a first device (p. 4 slide 7 pc/client) and at least one data storage unit (p. 4 slide 7 NASD) in a computer network (p. 4 slide 7 showing LAN/WAN protocol between the pc and active router) comprising: A file system that indicates location of data stored on at least one data storage unit (p. 4 slide 7 showing file system); circuitry that processes network protocol data units associated with the operations based on storage services protocol set information to facilitate transmission of the data unit (p. 4 slide 7 active router). Nagle does not explicitly teach a system wherein said processing of the protocol data units includes encapsulating non-network protocol transactions into network protocol data units.

Wan et al. expressly taught a system wherein said processing of the protocol data units includes encapsulating storage services transactions into network protocol data units (col. 19, line 64 – Col. 20, line 16).

It would have been obvious to combine the two reference as both are directed to the solution of the same problem and the express teaching of Wan et al. (col. 2, line 50 – col. 3, line 5)

Regarding claim 11, Nagle teaches an apparatus wherein said circuitry balances loads associated with selected read transactions (p. 5 slide 10).

Regarding claim 12, Nagle teaches an apparatus wherein said circuitry duplicates data units associated with selected write transactions to achieve mirroring (p. 6 slide 11).

Regarding claim 13, Nagle teaches an apparatus wherein said circuitry duplicates data units associated with selected transactions to achieve N-way mirroring (p. 6 slide 11).

Regarding claim 14, Nagle teaches an apparatus wherein said circuitry duplicates selected metadata (p. 9 slide 17).

Regarding claim 15, Nagle teaches an apparatus wherein said circuitry facilitates ensuring right to access based on originator (p. 7 slide 13 access control).

Regarding claim 16, Nagle teaches a system wherein said circuitry blocks access to selected destinations (p. 7 slide 13 access control).

Regarding claim 20, Nagle teaches a system wherein said circuitry includes a switch (p. 5 slide 10).

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Regarding claims 1-7, they are method claims corresponding to apparatus claims 10-16, respectively. Since they do not teach or define above the information in the corresponding apparatus claims, they are rejected under the same basis.

Claims 8-9 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagle in view Wan et al. (6,400,730) and further in view of Pfleeger, C., Security in Computing, 2nd ed., Prentice-Hall PTR, pp. 286-292, 1997. Apparatus claims 17-18 will be discussed before method claims 8-9.

Regarding claim 17, the combination of Nagle in view of Wan et al. teaches the invention substantially as claimed. See the rejection of claim 10 above. The combination of Nagle in view of Wan et al., Nagle teaches a system including a secure server environment (p. 8 slide 16) but does not teach a system wherein said circuitry monitors and logs access. Pfleeger on the other hand teaches that auditing is a key feature of secure systems (p. 289) and that auditing includes monitoring and logging access (p. 291 logging security events). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Pfleeger's auditing system with the secure system of the combination of Nagle in view of Wan et al., because of Pfleeger's teaching that auditing is a key feature of secure systems.

Regarding claim 18, the combination of Nagle in view of Wan et al. teaches the invention substantially as claimed. See the rejection of claim 17 above. The combination of Nagle in view of Wan et al. does not teach a system wherein said circuitry employs results from access monitoring and logging to detect unauthorized intrusion. Pfleeger on the other hand teaches the use of audit information in an intrusion detection system (p. 292). An intrusion detection uses such a system to detect unauthorized intrusion. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Pfleeger's automated intrusion detection system with the secure system of the combination of Nagle in view of Wan et al. because of Pfleeger's teaching that it enhances security by reducing the amount of audit information a human must review (p. 292).

Regarding claims 8-9, they are method claims corresponding to apparatus claims 17-18, respectively. Since they do not teach or define above the information in the corresponding apparatus claims, they are rejected under the same basis.

Regarding claim 19, Nagle teaches a system wherein said circuitry includes a host (p. 7 slide 13 file manager and slide 14 manager).

4. Applicant's arguments with respect to claims 1-6, 10-16 and 19-20 have been considered but are moot in view of the new ground(s) of rejection.

As to the arguments directed to claims 8-9 and 17-18, Applicant argues in substance The Pfleeger reference is not specifically directed towards providing storage information over a network, and does not present solutions specific to moving storage transactions through disparate protocols in a networked environment.

5. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

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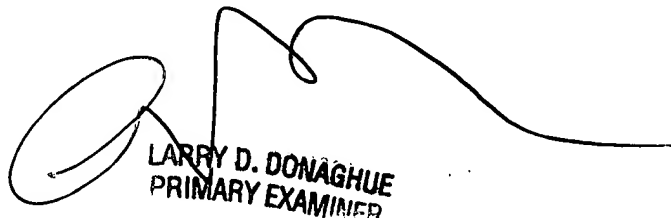
6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Larry D Donaghue whose telephone number is 571-272-3962. The examiner can normally be reached on M-F 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



LARRY D. DONAGHUE
PRIMARY EXAMINER